

## **VOLUME 1 - GENERAL & TRACK ALIGNMENT**

DRAWING No.	REV No.	DRAWING DESCRIPTION
		VOLUME 1A - GENERAL
GE-D0001		PACKAGE 1A - TITLE SHEET
GE-A0001		PACKAGE 1A - GENERAL - INDEX OF DRAWINGS
TT-B0001		PACKAGE 1A - GENERAL - NOTES
VS-C0001		PACKAGE 1A - GENERAL - SURVEY CONTROL DATA - SHEET 1 OF 4
VS-C0002		PACKAGE 1A - GENERAL - SURVEY CONTROL DATA - SHEET 2 OF 4
VS-C0003		PACKAGE 1A - GENERAL - SURVEY CONTROL DATA - SHEET 3 OF 4
VS-C0004		PACKAGE 1A - GENERAL - SURVEY CONTROL DATA - SHEET 4 OF 4
		VOLUME 1B - TRACK ALIGNMENT
TT-B0001		PACKAGE 1A - TRACK GUIDEWAY - KEY MAP
TT-D3001		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3002		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3003		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3004		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3005		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3006		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3007		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3008		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
TT-D3009		PACKAGE 1A - TRACK GUIDEWAY - TYPICAL SECTIONS
CB3010		FRESNO SUBSECTION - ALIGNMET F1 - CROSS SECTIONS
CB3011		FRESNO SUBSECTION - ALIGNMET F1 - CROSS SECTIONS
TT-D0001		PACKAGE 1A - TRACK GUIDEWAY - HORIZONTAL ALIGNMENT DATA
TT-D1000		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10535+00 TO 10554+00
TT-D1001		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10554+00 TO 10582+00
TT-D1002		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10582+00 TO 10610+00
TT-D1003		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10610+00 TO 10638+00
TT-D1004		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10638+00 TO 10666+00
TT-D1005		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10666+00 TO 10694+00
TT-D1006		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10694+00 TO 10722+00
TT-D1007		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10722+00 TO 10750+00
TT-D1008		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10750+00 TO 10778+00
TT-D1009		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10778+00 TO 10806+00
TT-D1010		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10806+00 TO 10834+00
TT-D1011		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10834+00 TO 10862+00
TT-D1012		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10862+00 TO 10890+00
TT-D1013		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10890+00 TO 10918+00
TT-D1014		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10918+00 TO 10946+00
TT-D1015		PACKAGE 1A - TRACK GUIDEWAY - PLAN AND PROFILE - STA. 10946+00 TO 10974+00
CB1657		FRESNO SUBSECTION - ALIGNMET F1 - STA. 257+24.56 TO 261+00
CB1658		FRESNO SUBSECTION - ALIGNMET F1 - STA. 261+00 TO 275+00

CB1659	FRESNO SUBSECTION - ALIGNMET F1 - STA. 275+00 TO 289+00
CB1160	FRESNO SUBSECTION - ALIGNMET F1 - STA. 289+00 TO 303+00
CB1161	FRESNO SUBSECTION - ALIGNMET F1 - STA. 303+00 TO 317+25
	TT-D0016 TO TT-D1029 NOT USED
TT-D1030	PACKAGE 1A - SJVRR SOUTH SPUR - PLAN AND PROFILE - STA. 0+00 TO STA. 8+68.74

						DESIGNED BY	
						DRAWN BY A. SHIELDS	
						CHECKED BY A. BOONE	
						IN CHARGE A. BOONE	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/01/2012	

PROPOSED
PRELIMINARY
DESIGN
NOT FOR

CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958ii
CH2MHILL



# CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

PACKAGE 1A GENERAL INDEX OF DRAWINGS

CONTRACT NO.
DRAWING NO.
GE-A0001
SCALE
NONE.

SHEET NO.

### GENERAL

- 1. IN-SCOPE AND AND NOT IN-SCOPE ITEMS ARE INDENTIFIED IN THE SCOPE OF WORK ATTACHMENT (ELEMENTS MATRIX + SCOPING TYPICAL SECTIONS)
- 2. REFER TO SCOPE OF WORK DOCUMENTATION IN THE PROCUREMENT PACKAGE FOR SCOPE REQUIREMENTS. FINAL DESIGN AND DIMENSIONS SHALL BE BASED ON DESIGN CRITERIA, DIRECTIVE DRAWINGS AND STANDARD DRAWING REQUIREMENTS.
- B. CONTROL SURVEY AND MAPPING:
- 1. NAD 83 (NSRS2007), (1991.35)CALIFORNIA COORDINATE SYSTEM DATUM SHALL BE USED AS HORIZONTAL COORDINATE VALUES.
- 2. NAVD 88 VERTICAL DATUM SHALL TO BE USED AS VERTICAL DATUM.
- 3. MAPPING SHALL BE BASED ON CALIFORNIA COORDINATE SYSTEM (CCS 83) IN US CUSTOMARY
- 4. NETWORK OF CONTROL SURVEY MONUMENTS WAS ESTABLISHED AT TWO MILE INTERVALS ALONG THE CHSTP ALIGNMENT. THESE CONTROL MONUMENTS SHALL BE USED IN FUTURE SURVEYS TO ENSURE THAT SURVEY ACTIVITIES ARE BASED ON THE SAME ADJUSTMENT POSITIONS AND EPOCH THAT TRANSITIONS BETWEEN ZONES OF THE CALIFORNIA COORDINATE SYSTEM ARE UNIFORM AND CORRECT.

#### TRACK GENERAL NOTES:

#### GENERAL TRACK NOTES:

- 1. THE GENERAL BASIS FOR TRACK STANDARDS AND MATERIALS SHALL BE THE AREMA MANUAL.
- 2. TRACK AND TRACK COMPONENTS SHALL BE DESIGNED AND FABIRICATED TO PERFORM UNDER THE PREVAILING AND EXTREME CLIMATIC AND ENVIRONMENTAL CONDITIONS OCCURING WITHIN THE GEOGRAPHIC EXTENT OF THE SYSTEM.
- 3. THE PROFILE IS CARRIED ON THE TOP OF LOWER RAIL THROUGH HORIZONTAL CURVES AND SPIRALS FOR THE DESIGNATED TRACK.
- 4. THE LENGTHS OF LINES ARE BASED ON CENTER OF TRACK ALIGNMENT.
- 5. UNLESS SEPARATE TRACK PROFILES ARE GIVEN, TRACK PARALLEL TO THE DESIGNATED TRACK ARE AT THE SAME TOP OF RAIL ELEVATIONS PROJECTED ON EITHER PERPENDICULAR OR RADIAL LINES FROM THE DESIGNATED TRACK CENTERLINES.
- 6. BALLASTED TRACKS ARE GENERALLY PREFERRED FOR YARD TRACKS. DESIGNERS SHALL FOLLOW THE REQUIREMENTS ASSOCIATED WITH CONSTRUCTION OF BALLASTED TRACK IN THE CALIFORNIA HIGH SPEED TRAIN DESIGN MANUAL.
- 7. DIMENSIONS SHOWN ON THE DESIGN DRAWINGS WERE DEVELOPED BY PRELIMINARY ENGINEERING AND FINAL DIMINSIONS WILL BE DETERMINED ON THE FINAL TRACK PLANS BY THE DESIGN
- 8. "ORIGINAL GROUND" SHOWN ON CROSS SECTIONS REFERS TO THE APPROXIMATE EXISTING GROUND LINE AT THE DESIGNATED CENTERLINE, BASELINE, LAYOUT LINE OR SECTION LINE.

REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 02/01/2012	•
						IN CHARGE A. BOONE	
						CHECKED BY A. BOONE	
						DRAWN BY A. SHIELDS	
						DESIGNED BY A. SHIELDS	

PROPOSED PRELIMINARY DESIGN

NOT FOR CONSTRUCTION





## CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

PACKAGE 1A TRACK GUIDEWAY GENERAL NOTES

CONTRACT NO.
DRAWING NO. TT-B0001
scale NONE

SHEET NO.

1. HORIZONTAL CONTROL DATUM:

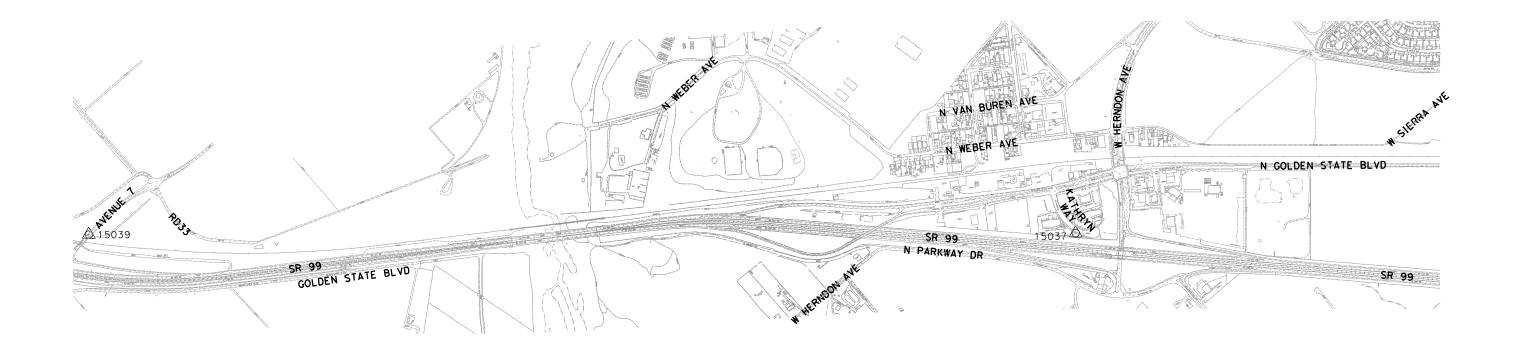
THE HORIZONTAL GRID COORDINATES SHOWN HEREIN ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE IV.

2. VERTICAL CONTROL DATUM:

THE VERTICAL DATUM FOR THE EVEVATIONS SHOWN HEREIN ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

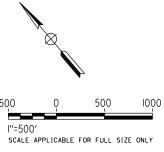
3. PROJECTION:

LAMBERT CONIC PROJECTION



### HORIZONTAL AND VERTICAL CONTROL INFORMATION

POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
15037	PB CONTROL: S182-P 2½" BRONZE DISK IN 1" IRON PIPE IN 8" CONCRETE PIER, STAMPED "CHSRA S182P LS 4430 2010"	2187855.88	6292923.69	300.64
15039	NGS CONTROL: DG9697	2194533.009	6285098.921	318.89



V								
/07/							DESIGNED BY A. SHIELDS	
-							DRAWN BY F. DeMARCO	PROPOSED Preliminary
_							CHECKED BY	DESIGN
Nan							IN CHARGE A. BOONE	NOT FOR
SUL	REV	DATE	ВΥ	СНК	APP	DESCRIPTION	01/09/2012	CONSTRUCTION

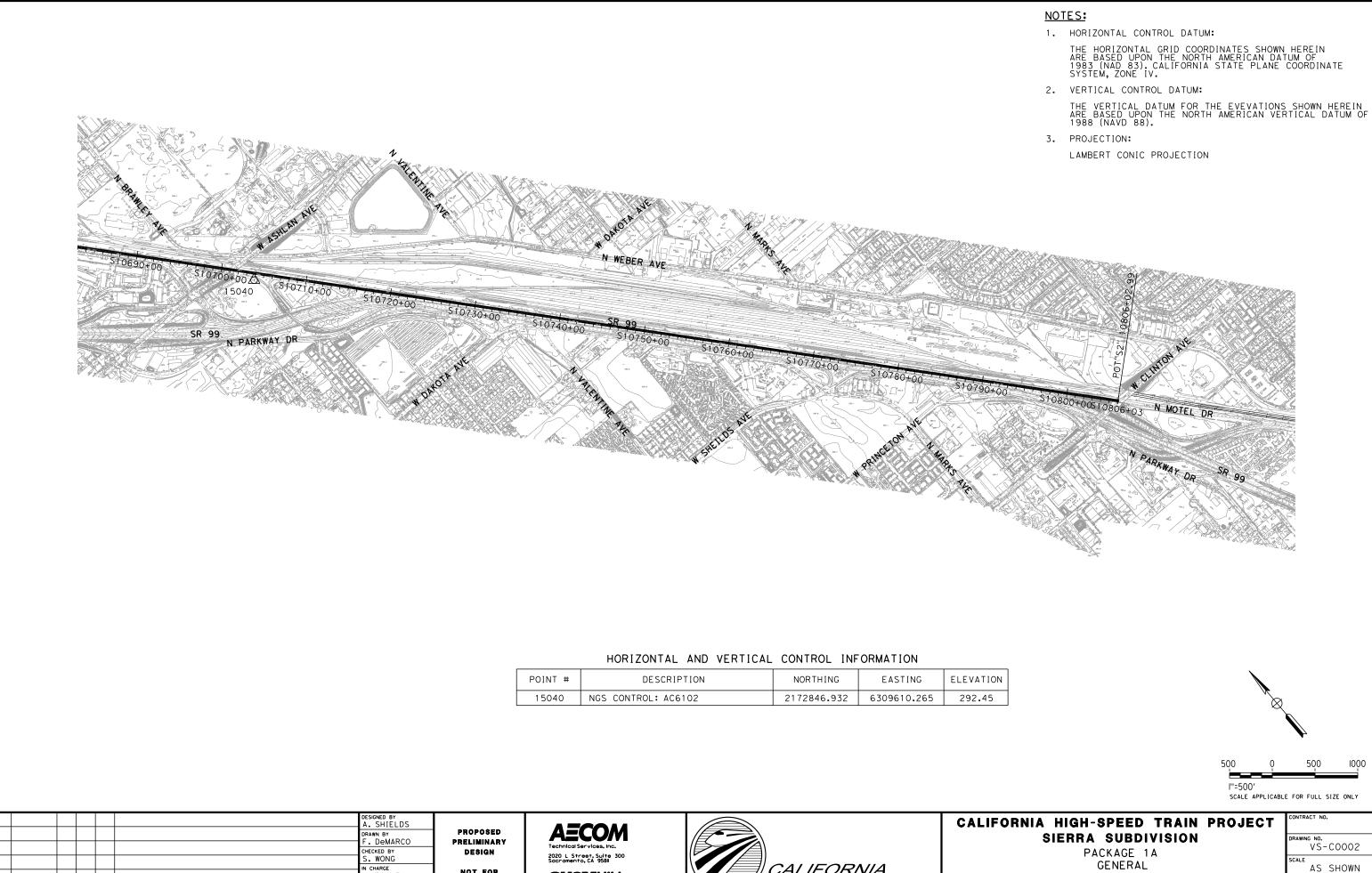
2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL** 



## CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

PACKAGE 1A GENERAL SURVEY CONTROL DATA SHEET 1 OF 4

CONTRACT NO.
DRAWING NO.
VS-C0001
SCALE
AS SHOWN
SHEET NO.



REV DATE

BY CHK APP

CHARGE A. BOONE 02/01/2012 DESCRIPTION

NOT FOR

CONSTRUCTION

**CH2MHILL** 

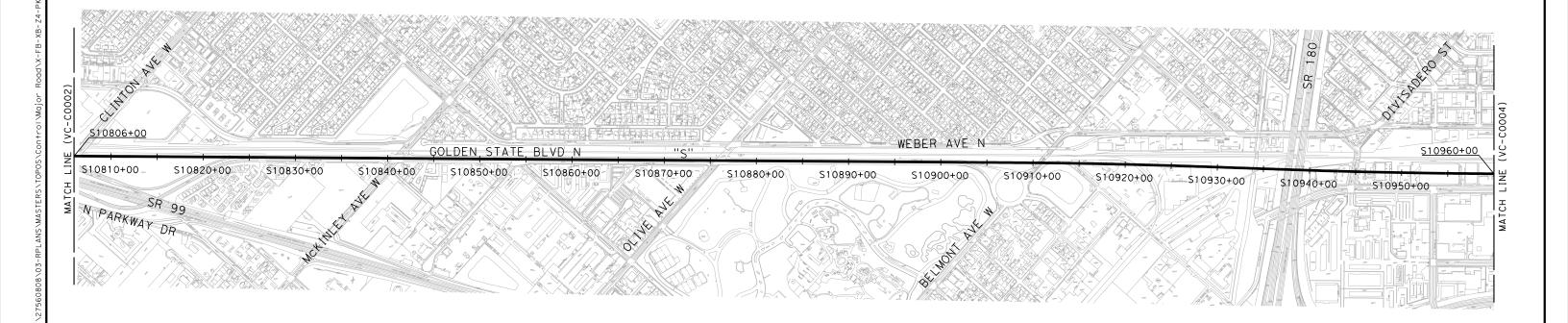


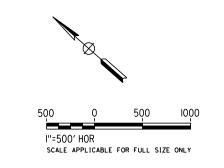
SURVEY CONTROL DATA SHEET 2 OF 4

CONTRA	CT NO		
DRAWIN		-C0002	
SCALE	AS	SHOWN	
SHEET	NO.		

1. FOR LOCATION OF CONTROL POINT # 15037 (S182P) SEE SHEET VS-COO1

FOR LOCATION OF CONTROL POINT # S193P SEE SHEET VS-C0004





			J. LABANOWSKI IN CHARGE G. HORTON DATE
			DRAWN BY S. AVILES CHECKED BY
			DESIGNED BY S. CHRISTENSEN

PROPOSED
PRELIMINARY
DESIGN
NOT FOR

CONSTRUCTION





# CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

PACKAGE 1A GENERAL SURVEY CONTROL DATA SHEET 3 OF 4

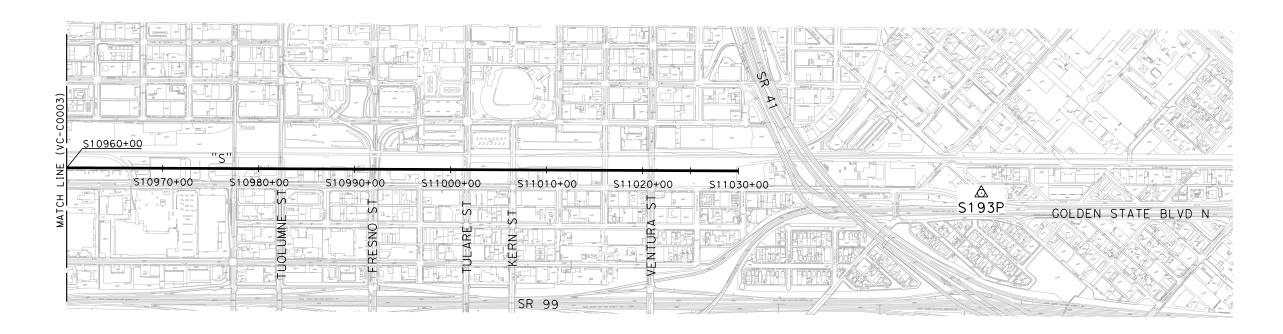
CONTR	ACT NO	) <b>.</b>	
DRAWIN	IG NO.		
		00007	
	۷5-	·C0003	
SCALE			
	Δς	SHOWN	
		31101111	
SHEET	NO.		

- 1. DATA SHOWN HEREON IS BASED ON SURVEY CONTROL MONUMENT DATA SHEETS AND MAP ON FILE IN THE OFFICE OF THE CHSRA
- 2. HORIZONTAL CONTROL DATUM:

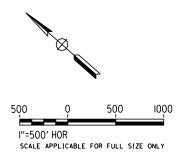
THE HORIZONTAL GRID COORDINATES SHOWN HEREIN ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83). CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE IV, US SURVEY FEET

- 3. VERTICAL CONTROL DATUM:
  THE VERTICAL CONTROL DATUM FOR THE ELEVATIONS SHOWN HEREIN
  ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF
  1988 (NAVD88), US SURVEY FEET
- 4. PROJECTION:

LAMBERT CONIC PROJECTION



	POINT #	DESCRIPTION	N	E	ELEV	LOCATION		
	S193P	FOUND STANDARD OUSDA	ZON	IE 4		IN THE CITY OF FRESNO, COUNTY OF FRESNO, 450 FEET		
		FOUND STANDARD CHSRA 2-1/2" BRONZE DISK IN 1" IRON PIPE IN 8" CONCRETE PIER STAMPED "S193P LS4430 2010"	2146202.84	6332518.62	286.04	SOUTHERLY ALONG CHERRY AVENUE FROM THE INTERSECTION OF CALIFORNIA AVENUE, 7.8 FEET WESTERLY OF THE WEST CURB FACE OF CHERRY AVENUE, 11.8 FEET NORTHEASTERLY OF THE NORTHEASTERLY CURB FACE OF G STREET.		



						DESIGNED BY S. CHRISTENSEN
						DRAWN BY
						CHECKED BY
1						J. LABANOWSKI
						G. HORTON
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 12/08/11

PROPOSED PRELIMINARY DESIGN NOT FOR

CONSTRUCTION

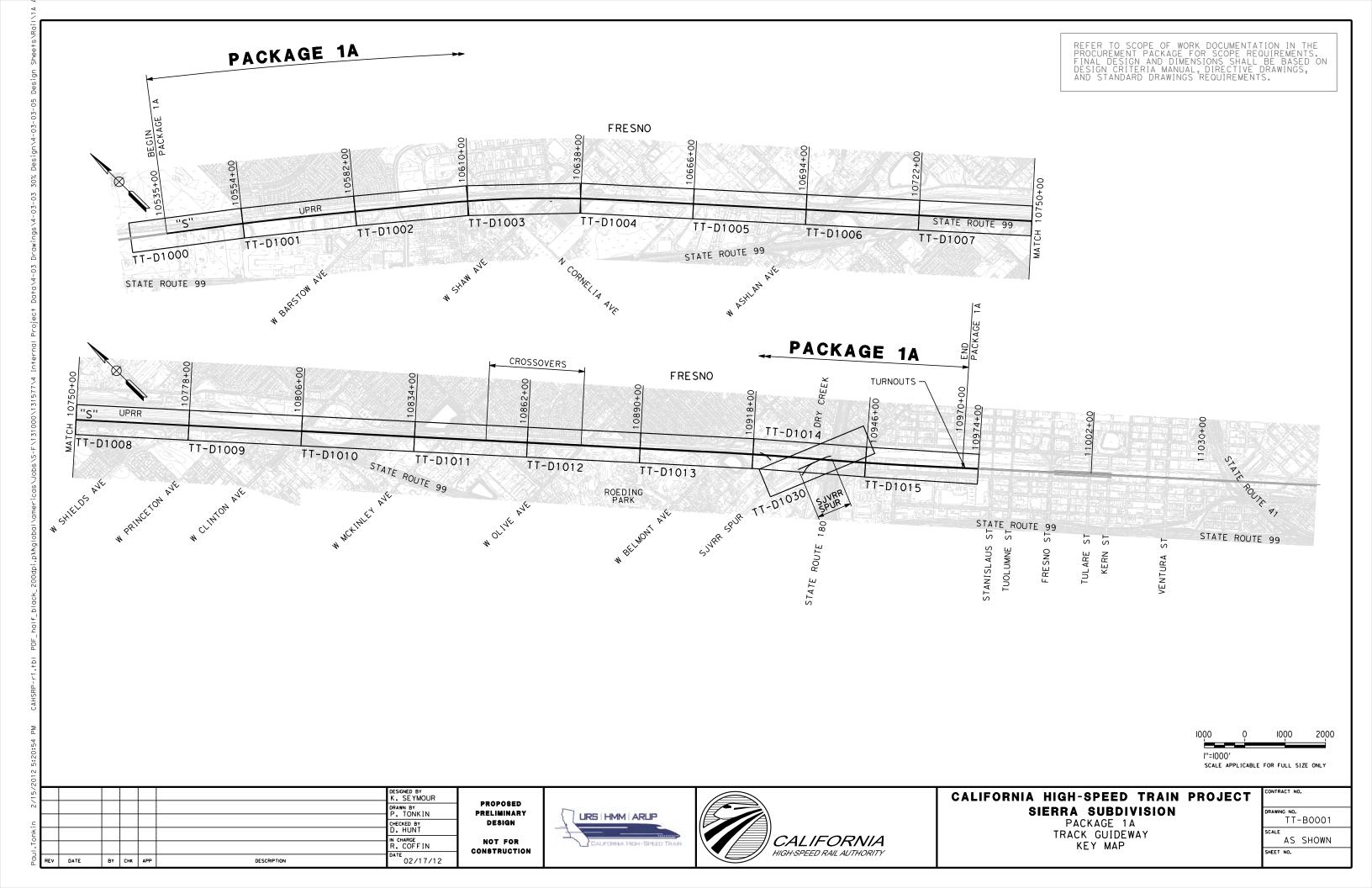


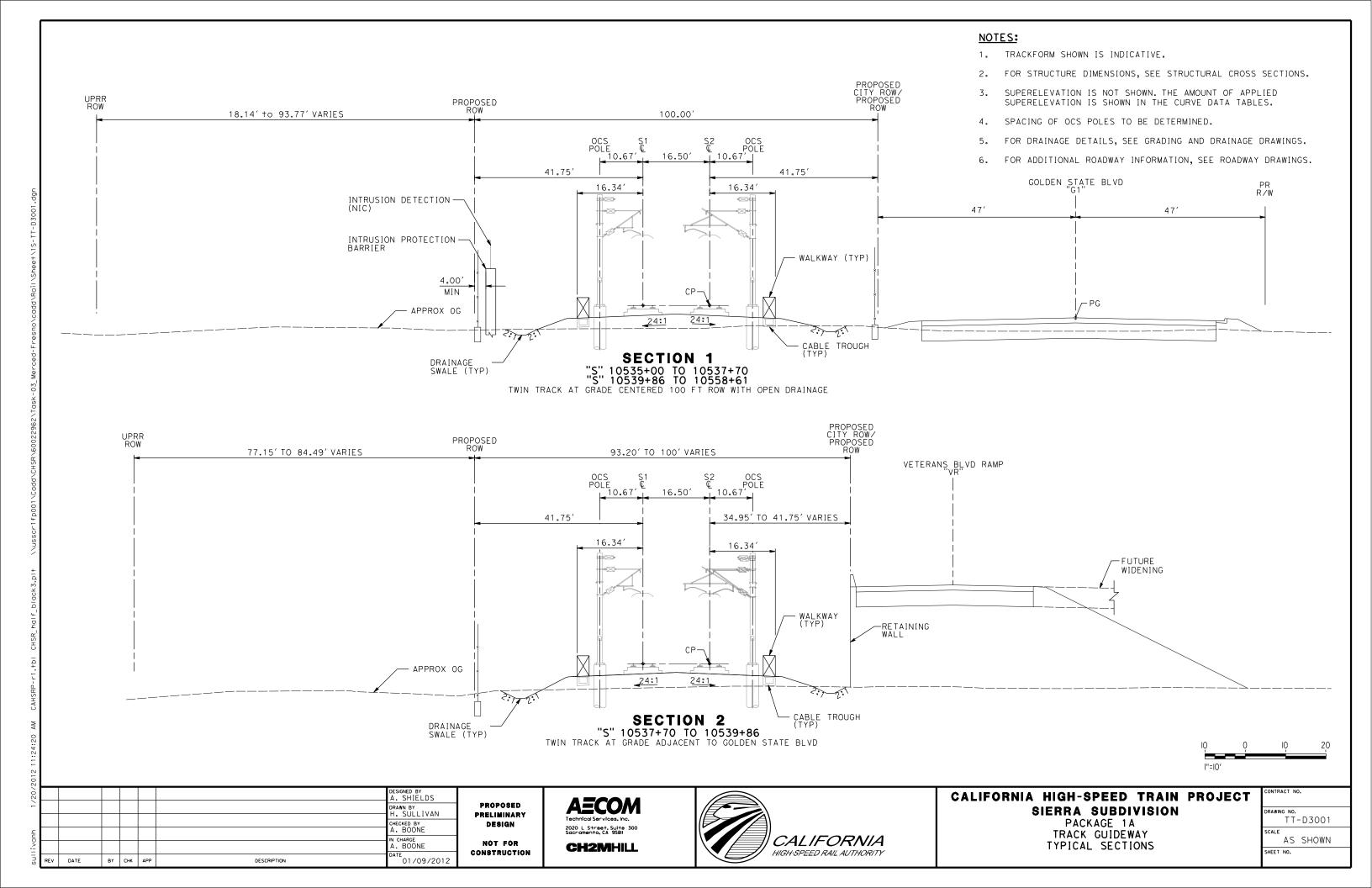


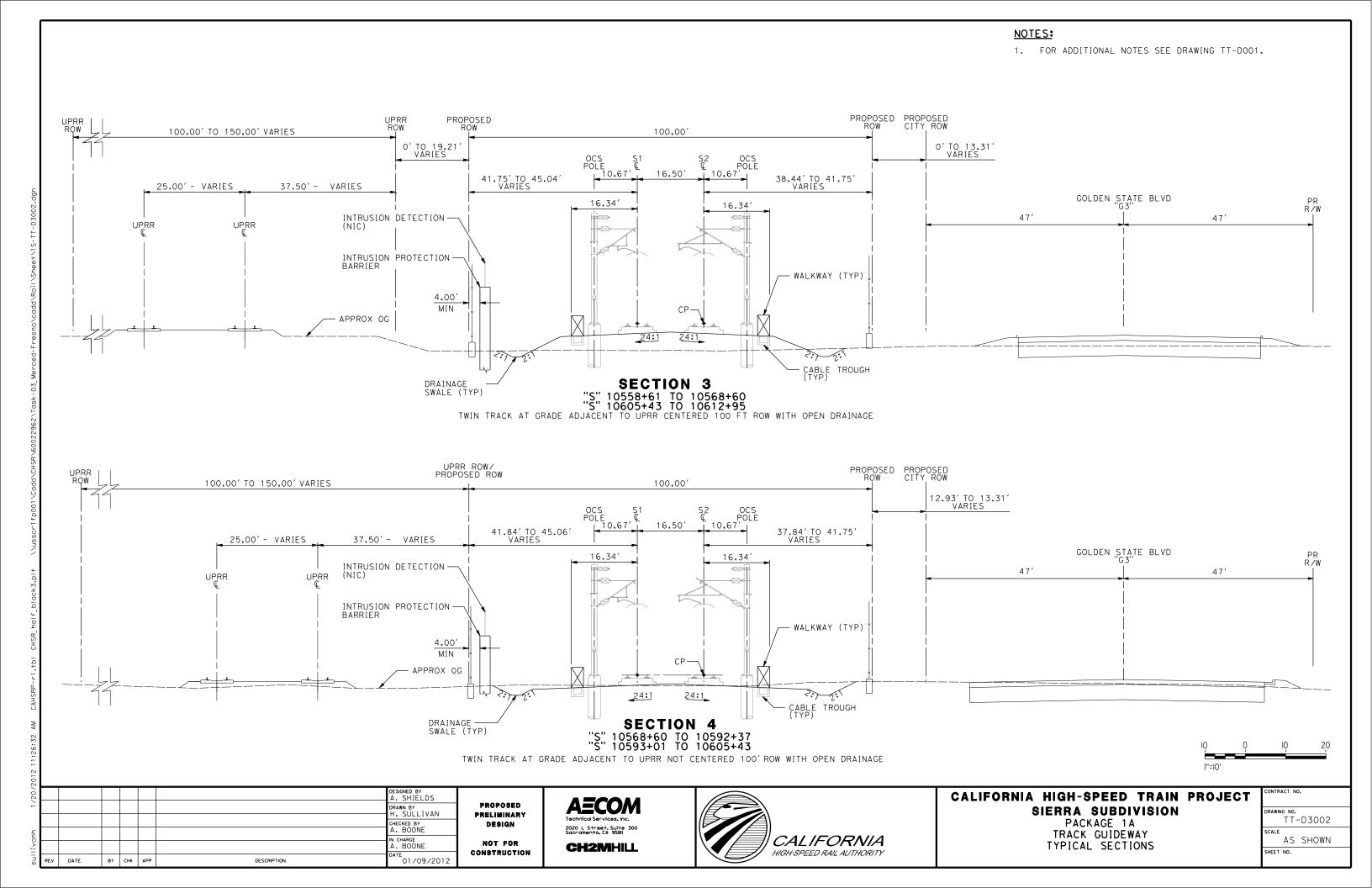
## CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

PACKAGE 1A GENERAL SURVEY CONTROL DATA SHEET 4 OF 4

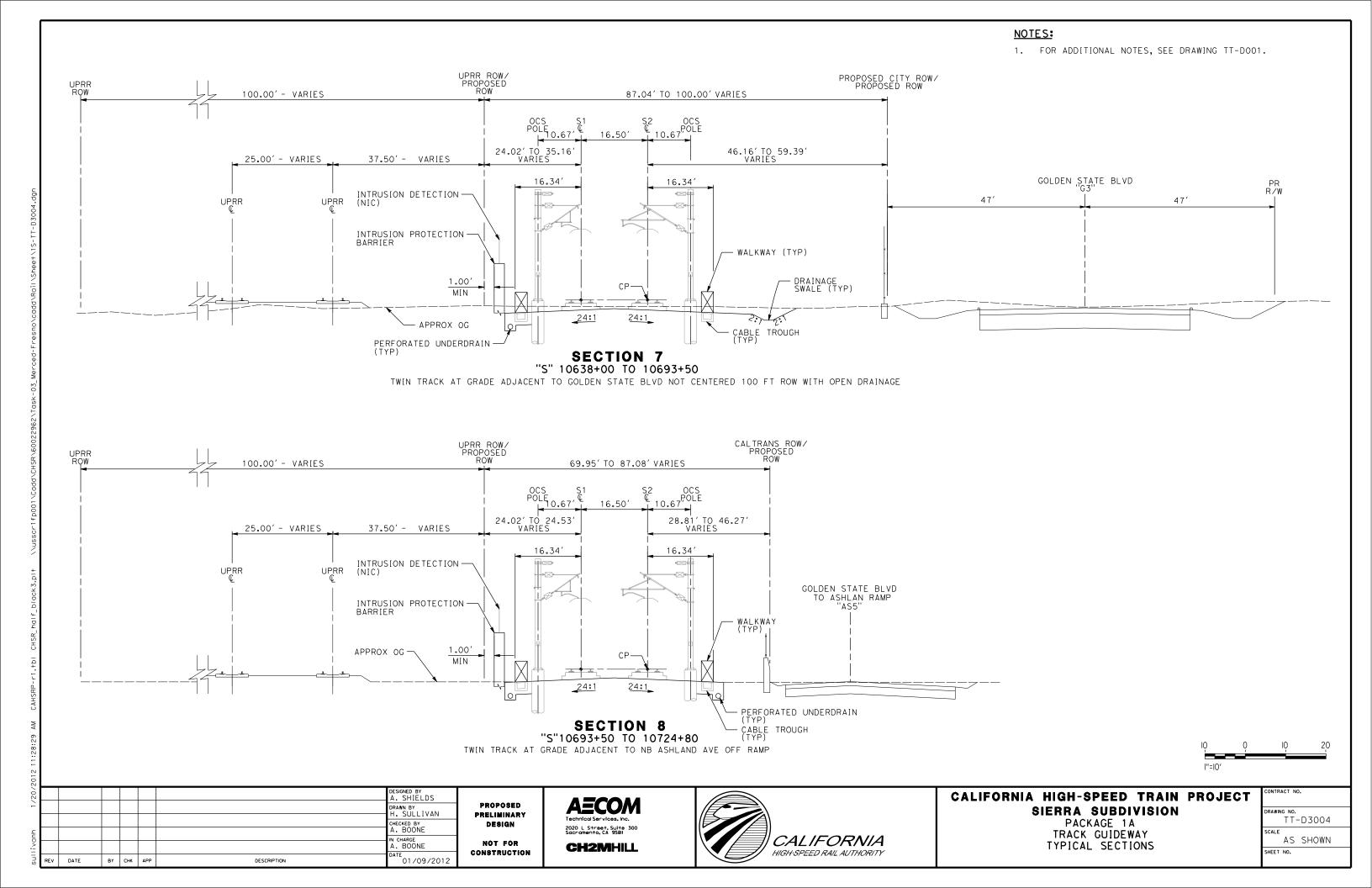
T	CONTRACT NO.	
	VS-COO	04
	AS SHC	WN
	SHEET NO	

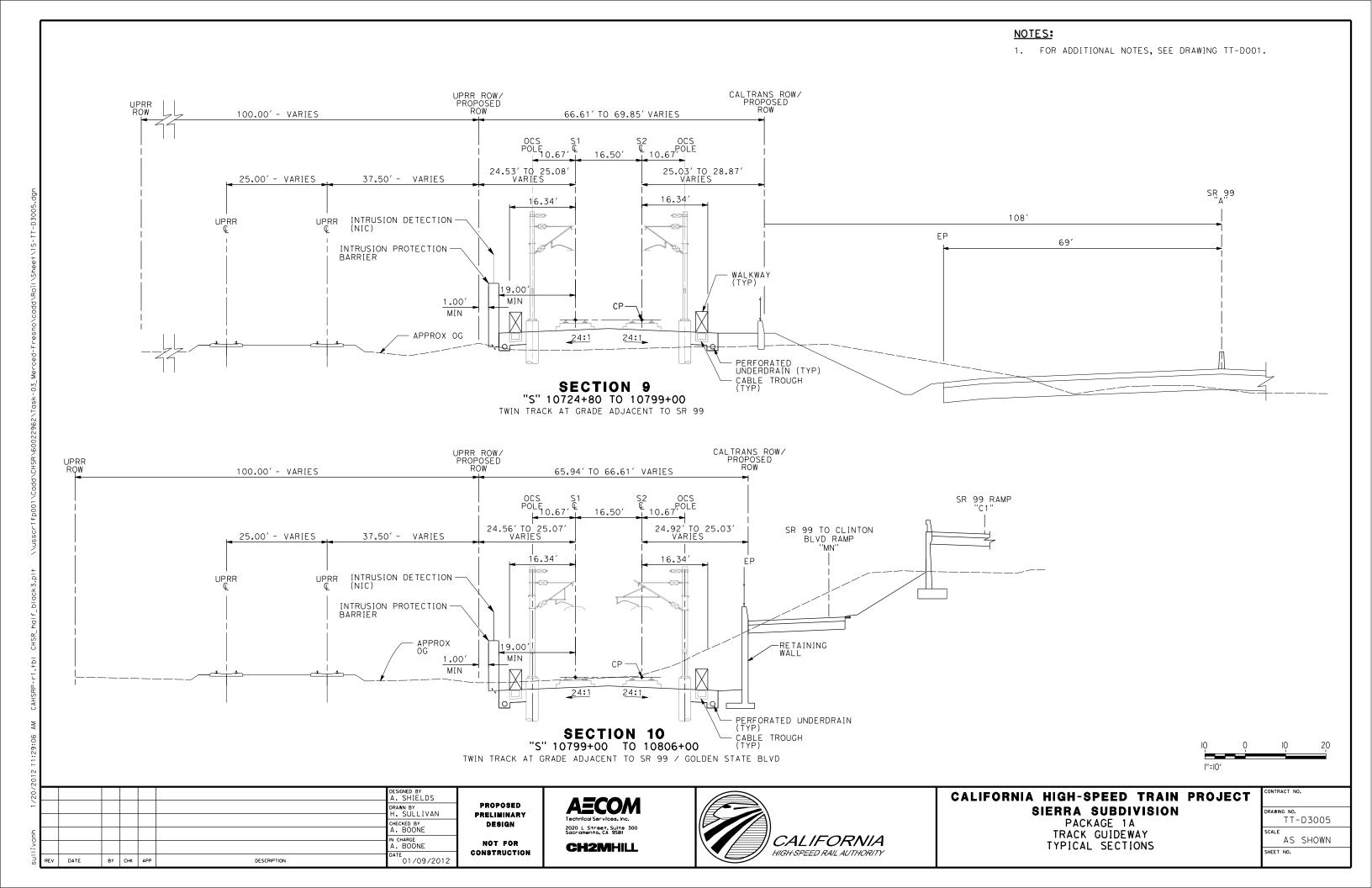






## NOTES: 1. FOR ADDITIONAL NOTES, SEE DRAWING TT-D001. OCS \$1 \$2 OCS POLE & POLE 10.67' 16.50' 10.67' SECTION 5 "S" 10592+37 TO 10593+01 TWIN TRACK OVER HERNDON CANAL PROPOSED CITY ROW/ PROPOSED ROW PROPOSED ROW UPRR ROW 100.00' 100.00' TO 150.00' VARIES 9.21' TO 38.58' VARIES OCS POLE 10.67 16.50 35.16' TO 41.75' VARIES 41.75' TO 48.32' VARIES 37.47' - VARIES 25.00' - VARIES 16.34 16.34 INTRUSION DETECTION — (NIC) PR R∕W GOLDEN STATE BLVD UPRR ¢ UPRR 47′ 47′ INTRUSION PROTECTION -WALKWAY (TYP) 4.00 MIN APPROX OG 24:1 24:1 DRAINAGE SWALE (TYP) CABLE TROUGH SECTION 6 "S" 10612+95 TO 10638+00 TWIN TRACK AT GRADE ADJACENT TO GOLDEN STATE BLVD CENTERED 100 FT ROW WITH OPEN DRAINAGE DESIGNED BY A. SHIELDS CALIFORNIA HIGH-SPEED TRAIN PROJECT **AECOM** PROPOSED DRAWN BY H. SULLIVAN SIERRA SUBDIVISION PRAWING NO. PRELIMINARY PACKAGE 1A TRACK GUIDEWAY CHECKED BY A. BOONE DESIGN 2020 L Street, Suite 300 Sacramento, CA 958II CALIFORNIA AS SHOWN CHARGE A. BOONE NOT FOR TYPICAL SECTIONS **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET NO. 01/09/2012 REV DATE BY CHK APP DESCRIPTION

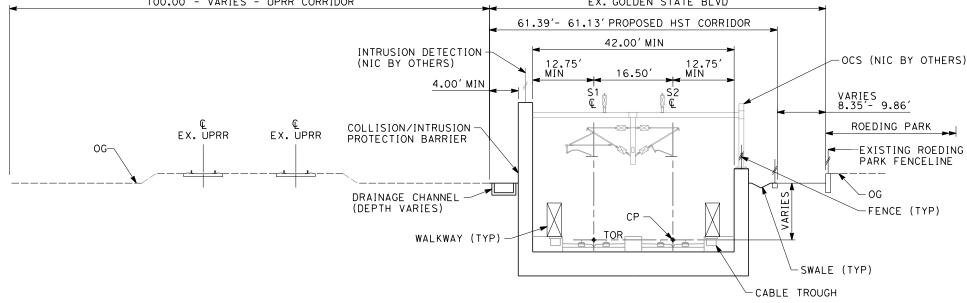




61.39' - 68.30' VARIES PROPOSED HST CORRIDOR 100.00' - VARIES - UPRR CORRIDOR 24.35' - 27.34' VARIES WITHIN STA 10806+00 TO 10828+00 23.35' - 24.56' VARIES 37,50' - VARIES 25.00' - VARIES 37.50' - VARIES OCS (NIC BY OTHERS) INTRUSION DETECTION -(NIC BY OTHERS) - WALKWAY -FENCE (STA 10828+00 TO 10885+00) EX. UPRR EX. UPRR 8.33′ MIN -FENCE MOUNTED ON TRAFFIC BARRIER (STA 10806+00 TO 10828+00) 10.67′ 16.50 10.67 COLLISION/INTRUSION - PROTECTION BARRIER TRAFFIC BARRIER GOLDEN STATE TOR - OG OG-BLVD ROADWAY 24:1 24:1 DRAINAGE (TYP) AT STA 10828+00 21.25' - 25.74' VARIES WITHIN STA 10828+00 TO 10885+00 HST ROW TRANSITIONS
TO EXCLUDE TRAFFIC CABLE TROUGH (TYP) BARRIER SECTION 11 "S" 10806+00 THROUGH 10885+00 TWIN TRACK AT GRADE ADJACENT TO UPRR 100.00' - VARIES - UPRR CORRIDOR EX. GOLDEN STATE BLVD 61.39'- 61.13' PROPOSED HST CORRIDOR 42.00' MIN INTRUSION DETECTION -OCS (NIC BY OTHERS) (NIC BY OTHERS)

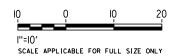
## NOTES:

- TRACKFORM SHOWN FOR INFORMATION ONLY (NIC BY OTHERS).
- 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL TYPICAL SECTIONS.
- 3. SUPERELEVATION IS NOT SHOWN.
  THE AMOUNT OF APPLIED
  SUPERELEVATION IS SHOWN IN
  THE CURVE DATA TABLES.
- 4. COLLISION/INTRUSION PROTECTION BARRIER REQUIRED FROM STA 10806+00 - 10950+30



## SECTION 12

"S" 10885+00 THROUGH 10902+50
TWIN TRACK IN GRADE SEPARATION ADJACENT
TO UPRR AND ROEDING PARK



ļ.	REV	DATE	ВΥ	СНК	APP	DESCRIPTION	R. COFFIN  DATE  02/17/12	CC
onki							D. HUNT	
_							CHECKED BY	l '
۲							DRAWN BY P. TONKIN	۱,
16							DESIGNED BY K. SEYMOUR	

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PRELIMINARY
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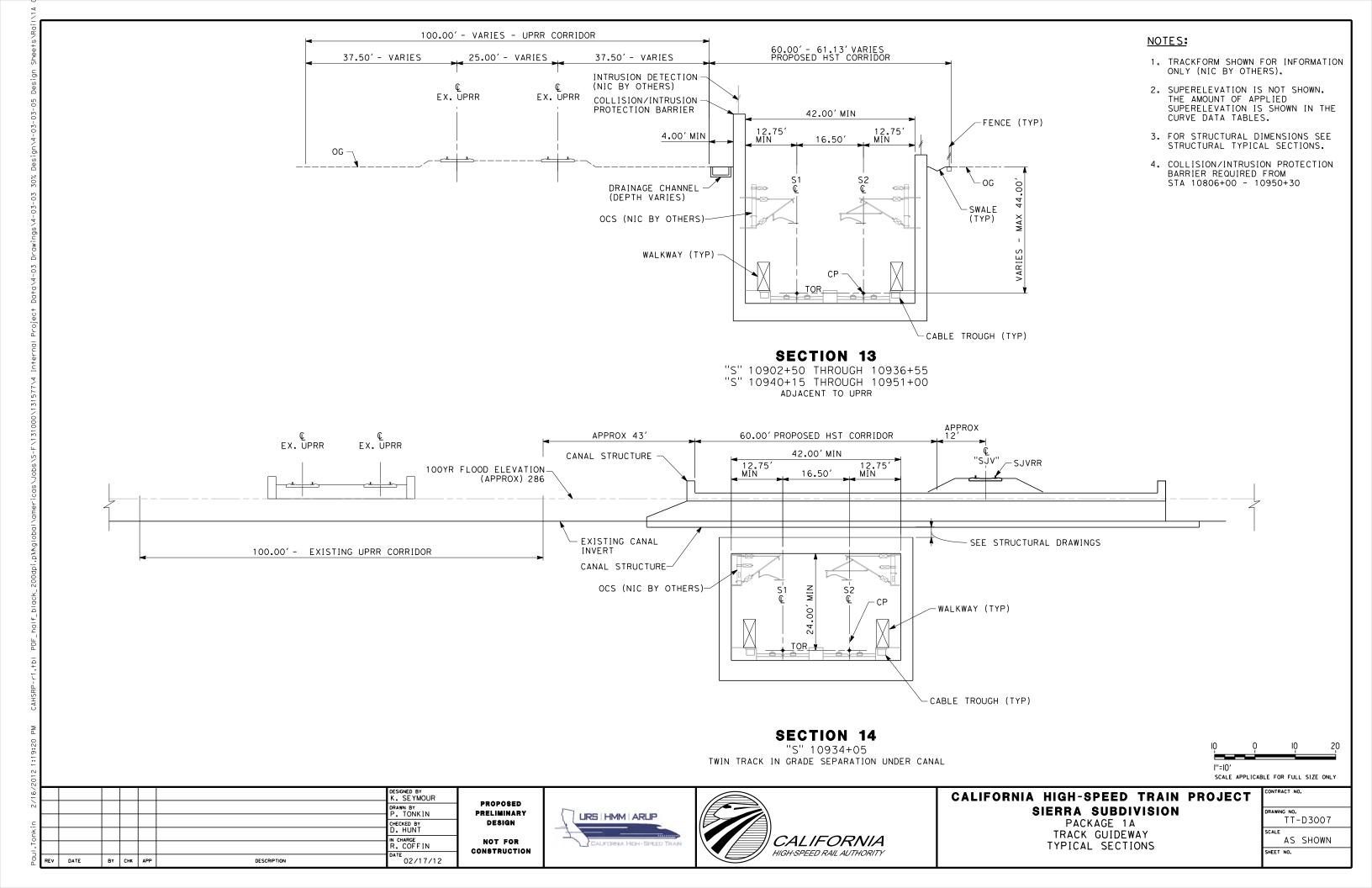


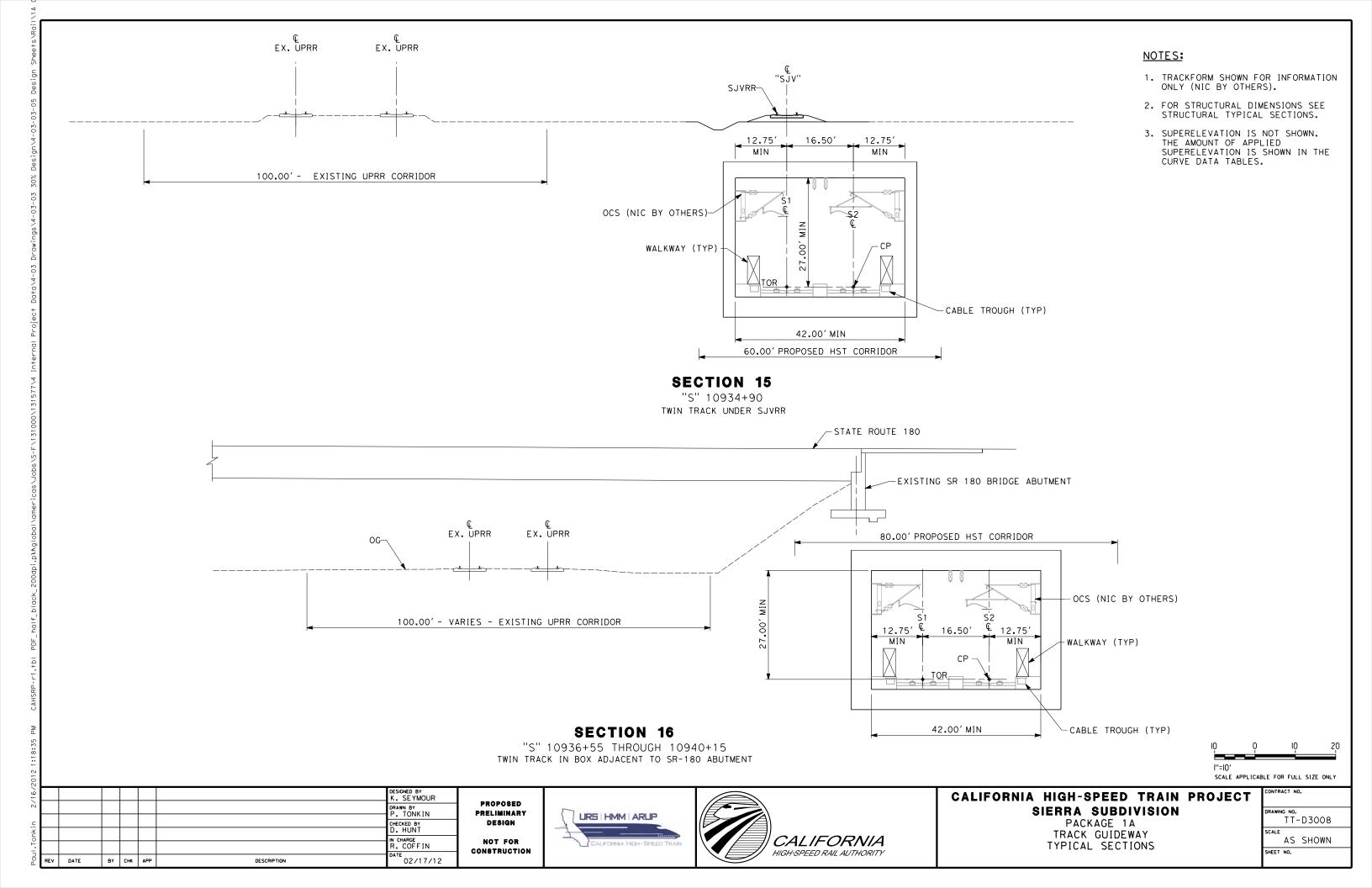


#### CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION PACKAGE 1A

PACKAGE 1A TRACK GUIDEWAY TYPICAL SECTIONS

CONTR	ACT NO	).	
DRAWIN	G NO.		
		D3006	
SCALE			
	ΑS	SHOWN	
CHEET	NO		





2/15/2012 5:20:37 PM C

PROPOSED Preliminary Design Not for

CONSTRUCTION





#### NOTES:

- TRACKFORM SHOWN FOR INFORMATION ONLY (NIC BY OTHERS).
- 2. FOR STRUCTURAL DIMENSIONS SEE STRUCTURAL TYPICAL SECTIONS.
- 3. DISTANCE BETWEEN TRACKS VARIES FROM 0.00'-25.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.
- 4. COLLISION/INTRUSION PROTECTION BARRIER REQUIRED FROM STA 10806+00 10950+30 AND STA 10990+70 11030+00
- 5. SUPERELEVATION IS NOT SHOWN.
  THE AMOUNT OF APPLIED
  SUPERELEVATION IS SHOWN IN THE
  CURVE DATA TABLES.

## SECTION 17

60.00' - 100.00 - PROPOSED HST CORRIDOR

42.00' MIN

16.50'

12.75

MIN

-FENCE

- WALKWAY - CABLE TROUGH

-SWALE (TYP)

12.75

MIN

OCS (NIC BY OTHERS)-

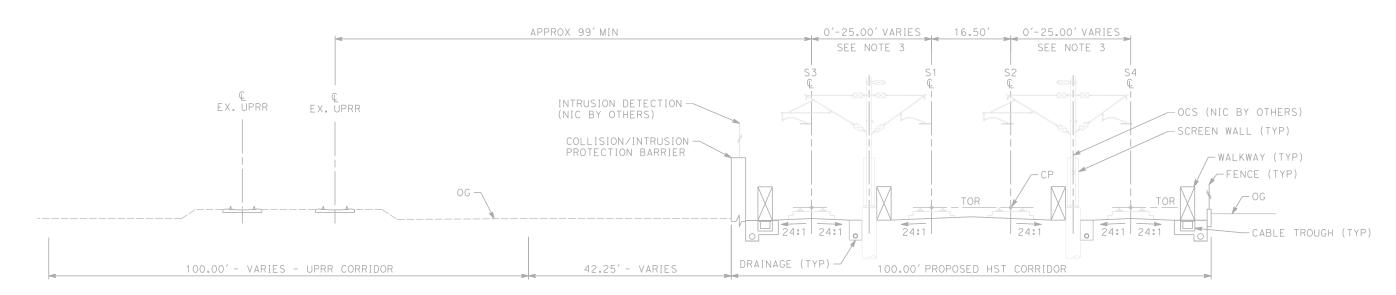
FENCE (TYP)

WALKWAY

OG -

DRAINAGE CHANNEL (DEPTH VARIES)

(PACKAGE 1A)
"S" 10951+00 THROUGH 10970+00
TWIN TRACK IN GRADE SEPARATION



#### **SECTION 18**

(PACKAGE 1B)

"S" 10970+00 THROUGH 10991+52
"S" 10992+67 THROUGH 10992+95

"S" 11007+05 THROUGH 11007+80

"S" 11026+00 THROUGH 11030+00

4 TRACK AT GRADE STATION APPROACH

## CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

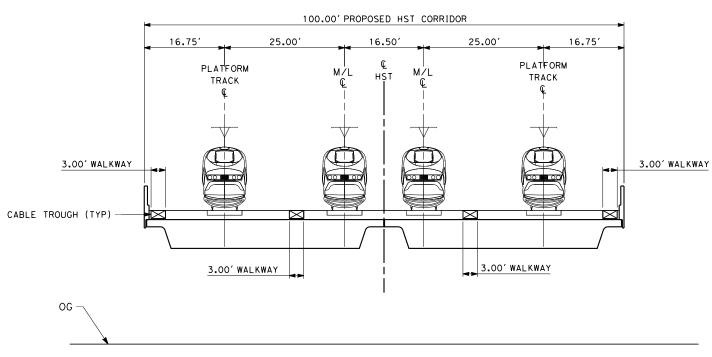
PACKAGE 1A TRACK GUIDEWAY TYPICAL SECTIONS

SCALE APPLICAE	BLE FOR FULL SIZE ONLY
DJECT	CONTRACT NO.
	DRAWING NO.
	TT-D3009
	SCALE
	AS SHOWN

l"=10'

S HMM ARLIP

- 1. TRACKFORM SHOWN IS INDICATIVE
- 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
- 3. DISTANCE BETWEEN TWO TRACKS VARIES FROM 0-25.00' THROUGH TURNOUTS AND REVERSE TO PARALLEL.



### SECTION 2

4 TRACK - BRIDGE STRUCTURE STA 278+77 THROUGH STA 279+92

o	0	ΙŅ	20
l''=10'			

						DESIGNED BY K. SEYMOUR	
						DRAWN BY P. TONKIN	REC
						CHECKED BY D. HUNT	DESI
						IN CHARGE R. COFFIN	CC
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 02/15/12	1

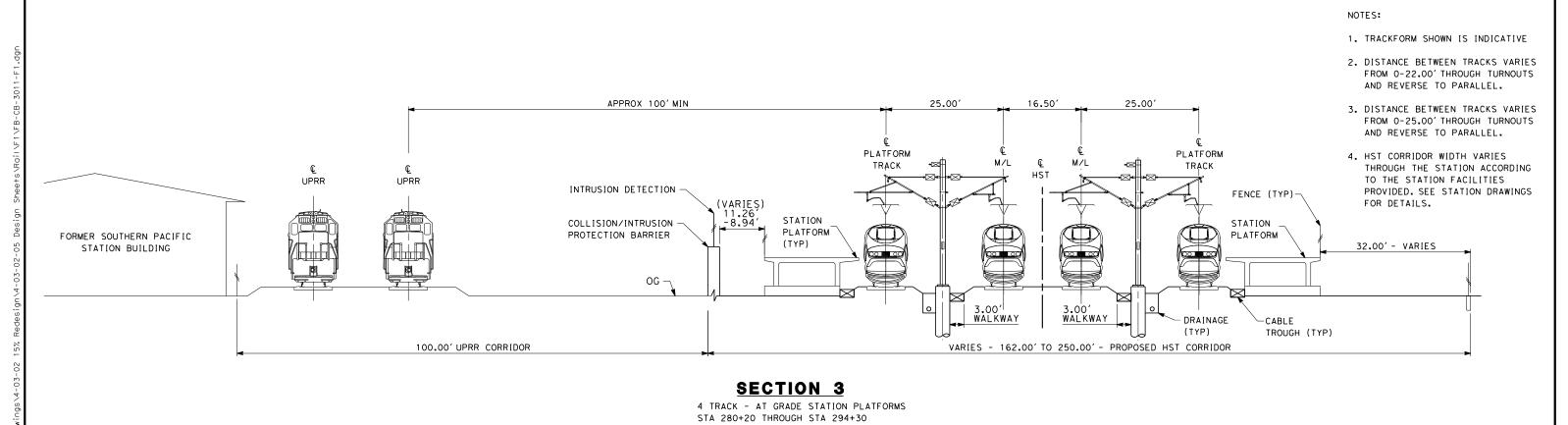
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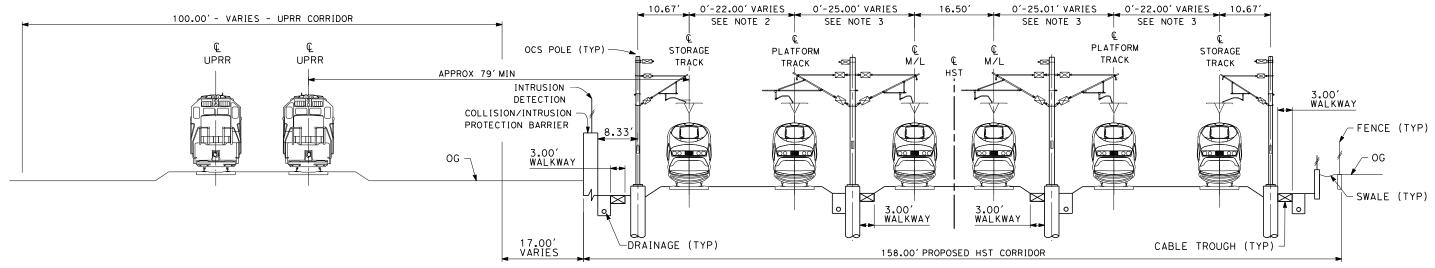
## CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

•	CONTRACT NO. HSR 06-0003
	DRAWING NO. CB3010
	SCALE AS SHOWN
	SHEET NO. 18 OF 23







## **SECTION 4**

6 TRACK - AT GRADE STORAGE TRACKS STA 295+05 THROUGH STA 313+25

IO	0	ΙŅ	20
l''=10'			

2/1							DESIGNED BY K. SEYMOUR	
							DRAWN BY P. TONKIN	RECORD SET 15%
Ker							CHECKED BY	DESIGN SUBMISSION
MO .							D. HUNT IN CHARGE	NOT FOR
							R. COFFIN	CONSTRUCTION
geott	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/15/12	

CALIFORNIA HIGH-SPEED TRAI



# CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

FRESNO SUBSECTION
ALIGNMENT F1
CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB3011
SCALE
AS SHOWN
SHEET NO.

19 OF 23

1. THE S1 LINE IS OFFSET TO S2 LINE BY 16.50 FEET.

TRACK GEOMETRY DATA ALONG SOUTHBOUND(S2) TRACK CENTERLINE													
CURVE NO.	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	DISTANCE (FT)	R (FT)	Lc (FT)	SPIRAL TYPE	Ls (FT)	Ea (in)	Eu (in)	V (MPH)
	POB	S10535+00.00	2184645.09	6297590.88	S51°24′12"E	919.91							250
101	TS	S10544+19.91	2184071.22	6298309.85	331 27 12 6	313.31			HALF SINE	1200 00			250
	SC	S10556+19.91	2183320.23	6299245.81			70000.00	1202.39	HALI SINE	1200100	3.00	0.57	250
	CS	S10568+22.31	2182554.13	6300172.52			10000.00	1202:33	HALF SINE	1200.00		0.51	250
	ST	S10580+22.31	2181776.12	6301086.14	S49°26′13"E	1333.20			HALI SINE	1200100			250
102	TS	S10593+55.51	2180909.17	6302098.96	343 20 13 6	1333.20			HALF SINE	2000.00			250
	SC	S10613+55.51	2179592.62	6303604.36			28000.00	2109.81	TIAL! SINE	2000.00	6.00	2.93	250
	CS	S10634+65.32	2178107.16	6305101.90			20000.00	2103.01	HALF SINE	2000.00		2.33	250
	ST	S10654+65.32	2176612.48	6306430.60	S41°01′38"E	24843.38			HALI SINE	2000.00			250
103	TS	S10903+08.70	2157870.69	6322738.24	341 01 30 L	2 10 13:30			HALF SINE	1000.00			220
	SC	S10913+08.70	2157114.93	6323393.08			71400.00	1002.81	TIAL! SINE	1000100	1.50	1.21	220
	CS	S10923+11.52	2156349.26	6324040.66			11100.00	1002.01	HALF SINE	1000.00		' • 2 '	220
	SS	S10933+11.52	2155578.08	6324677.27						1000.00			220
104	SC	S10943+11.52	2154806.89	6325313.88			71416.50	1166.50	THALF STALE		1.50	1.21	220
	CS	S10954+78.01	2153917.10	6326068.18			1		HALF SINE	1000.00		'•2'	220
	ST	S10964+78.01	2153162.84	6326724.75	S41°09′29"E	921.99			TITLE STILL				250
	POT	S10974+00.00	2154806.89	6335459.98	341 09 29 E	321.33							230

DESIGNED BY A. SHIELDS DRAWN BY H. SULLIVAN CHECKED BY A.BOONE N CHARGE A. BOONE 02/01/2012 BY CHK APP DESCRIPTION

PROPOSED PRELIMINARY DESIGN NOT FOR

CONSTRUCTION

Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 958II CH2MHILL



## CALIFORNIA HIGH-SPEED TRAIN PROJECT SIERRA SUBDIVISION

PACKAGE 1A TRACK GUIDEWAY HORIZONTAL ALIGNMENT DATA

Г	CONTRACT NO.								
	TT-D0001								
	SCALE	AS	SHOWN						
	CHEET	110							

